

## MSG 048B - RED FD05 MISSION SUMMARY

Good morning Red. We think the Blue team has successfully kept the RSA 'Swamp Monster' at bay. We suspect that operation of the Air Bypass Valve in the AUTO mode may have allowed a 'slug' of water through to RS1 that may have caused damage. We have overridden control of the Bypass valve from the ground and we are now in control of your SHAB cabin temp. Please don't hesitate to let us know if you would like the temperature adjusted and maybe we'll see what we can do.

We don't have any great suggestion about where to put the bags of wet towels leftover from the cleanup. You might consider putting them in empty food lockers as you eat your way through the mission.

Congratulations to the crew on capturing an ELVE! The MEIDEX team is ecstatic (no pun intended). The SOLSE gang says great job Rick! Their data looks wonderful. Keep up the good work. KOL HAKAVOD LE SHIVAT HSHEDONIM (Well done to the seven sprites).

Regarding Msg 55: BDS-05 BE temperature data checks. This is for possible future procedure checks which may be required. This error may occur again any time in the future and therefore this message contains instructions for both shifts.

Ilan was quite popular with the CM-2 team yesterday. Many thanks for getting us back on the nominal LSP timeline.

With KC's help, the MGM h/w and s/w are working wonderfully. MGM really appreciates her dedication to getting full science from the MGM experiments. Specimen reformation is a new process and they are learning a lot in a hurry! They also appreciate the interest and hard work from Rick and others – the video downlink of Rick agitating the MGM test cell answered a lot of questions. Kudos to Mike for performing the alternate step 2 during Deact which seemed to help with the wrinkle problem. In order to compensate for failed MGM test run number 3, MGM is resequencing their runs and intends to recover the lost run in the future.

The HLS team thanks you all for an outstanding effort and has the following for your consideration:

### TOP 5 REASONS FOR DOING PHAB4

- 5) You love being referred to as "The Count"
- 4) You love the smell of alcohol swabs in the morning
- 3) You now win every game of "Operation"
- 2) Two words: blue gloves
- 1) Constantly saying, "This won't hurt a bit"

<u>SYSTEM</u>	<u>FAILURE</u>	<u>IMPACT</u>	<u>WORK AROUND</u>
P/L	RS1 potentially failed due to flooding; possibly caused by the ABVA moving too rapidly.	Loss of RS1 and flooding under Spacehab Subfloor	RS1 was turned OFF and RS2 turned ON. Control of the ABVA has been taken over by the ECU-Ground Station at the POCC in order to limit the rate of ABVA movement.

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YOUR CURRENT ORBIT IS: 155 X 144 NM

NOTAMS:

EDWARDS (EDW) – LAKEBEDS RED/STANDING WATER

WHITE SANDS (NOR) – GREEN

KING KHALID (KKI) – 15L/33R CLOSED

NASSAU INTL (YNN) – RWY32 DISP THRESHOLD 3000 FT

BEN GUERIR (BEN) – NOT RECOMMENDED

BANJUL (BYD) – NOT RECOMMENDED

MONROVIA (LRB) - NOT RECOMMENDED

TAMANRASSETT (ATT) - NOT RECOMMENDED

LAS PALMAS (GDV) - CLOSED 21 JAN 0700-1500Z

SOUDA (GSA) – NOT SUPPORTING

DYESS (DYS) – NOT USABLE

NEXT 2 PLS OPPORTUNITIES:

EDW22 ORB 67 04/04:03

EDW22 ORB 83 05/04:04

OMS TANK FAIL CAPABILITY:

L OMS FAILS: YES (SHALLOW TARGETS)

R OMS FAILS: YES (SHALLOW TARGETS)

LEAKING OMS PRPLT BURN:

L OMS LEAK: BURN OUT-OF-PLANE AN + 2 <= TIG <= AN + 47

R OMS LEAK: BURN OUT-OF-PLANE AN + 3 <= TIG <= AN + 47

OMS QUANTITIES(%)

L OMS OX = 34.1 R OMS OX = 34.2

FU = 33.8 FU = 33.8

SUBTRACT I'CNCT COUNTER FOR CURRENT OMS QUANTITIES

DELTA V AVAILABLE:

OMS 317 FPS

ARCS (TOTAL ABOVE QTY1) 29 FPS

TOTAL IN THE AFT 346 FPS

ARCS (TOTAL ABOVE QTY2) 58 FPS

FRCS (ABOVE QTY 1) 44 FPS

AFT QTY 1 88 %

AFT QTY 2 50 %

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